

# Q.PEAK DUO BLK-G6+

## 330-345

ENDURING HIGH PERFORMANCE



### Q.ANTUM TECHNOLOGY: LOW LEVELIZED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.5%.



### INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



### ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID and Anti PID Technology<sup>1</sup>, Hot-Spot Protect and Traceable Quality Tra.Q™.



### EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



### A RELIABLE INVESTMENT

Inclusive 25-year product warranty and 25-year linear performance warranty<sup>2</sup>.



### STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

<sup>1</sup> APT test conditions according to IEC/TS 62804-1:2015, method B (-1500 V, 168h)

<sup>2</sup> See data sheet on rear for further information

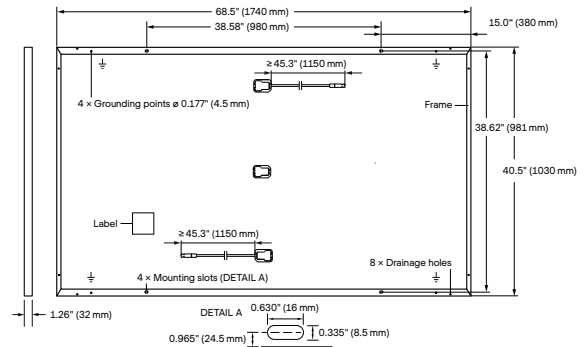
### THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings

## MECHANICAL SPECIFICATION

|              |   |
|--------------|---|
| Format       | 68.5 × 40.6 × 1.26 in (including frame)<br>(1740 × 1030 × 32 mm)  |
| Weight       | 43.9 lbs (19.9 kg)  |
| Front Cover  | 0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology   |
| Back Cover   | Composite film  |
| Frame        | Black anodized aluminum   |
| Cell         | 6 × 20 monocrystalline Q.ANTUM solar half cells   |
| Junction Box | 2.09-3.98 × 1.26-2.36 × 0.59-0.71 in (53-101 × 32-60 × 15-18 mm), Protection class IP67, with bypass diodes               |
| Cable        | 4 mm <sup>2</sup> Solar cable; (+) ≥ 45.3 in (1150 mm), (-) ≥ 45.3 in (1150 mm)   |
| Connector    | Stäubli MC4, Hanwha Q CELLS HQC4, Amphenol UTX, Renhe 05-6, Tongling TL-Cable01S, JMTHY JM601; IP68 or Friends PV2e; IP67 |

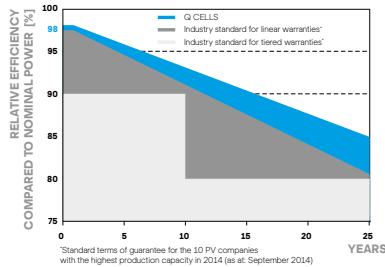


## ELECTRICAL CHARACTERISTICS

| POWER CLASS   |                                    | 330           | 335    | 340    | 345    |        |
|---|------------------------------------|---------------|--------|--------|--------|--------|
| MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5 W / -0 W) |                                    |               |        |        |        |        |
| Minimum   | Power at MPP <sup>1</sup>          | $P_{MPP}$ [W] | 330    | 335    | 340    | 345    |
|   | Short Circuit Current <sup>1</sup> | $I_{SC}$ [A]  | 10.41  | 10.47  | 10.52  | 10.58  |
|   | Open Circuit Voltage <sup>1</sup>  | $V_{OC}$ [V]  | 40.15  | 40.41  | 40.66  | 40.92  |
|   | Current at MPP                     | $I_{MPP}$ [A] | 9.91   | 9.97   | 10.02  | 10.07  |
|   | Voltage at MPP                     | $V_{MPP}$ [V] | 33.29  | 33.62  | 33.94  | 34.25  |
|   | Efficiency <sup>1</sup>            | $\eta$ [%]    | ≥ 18.4 | ≥ 18.7 | ≥ 19.0 | ≥ 19.3 |
| MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>2</sup>                           |                                    |               |        |        |        |        |
| Minimum   | Power at MPP                       | $P_{MPP}$ [W] | 247.0  | 250.7  | 254.5  | 258.2  |
|   | Short Circuit Current              | $I_{SC}$ [A]  | 8.39   | 8.43   | 8.48   | 8.52   |
|   | Open Circuit Voltage               | $V_{OC}$ [V]  | 37.86  | 38.10  | 38.34  | 38.59  |
|   | Current at MPP                     | $I_{MPP}$ [A] | 7.80   | 7.84   | 7.89   | 7.93   |
|   | Voltage at MPP                     | $V_{MPP}$ [V] | 31.66  | 31.97  | 32.27  | 32.57  |

<sup>1</sup>Measurement tolerances  $P_{MPP} \pm 3\%$ ;  $I_{SC}$ ;  $V_{OC} \pm 5\%$  at STC: 1000 W/m<sup>2</sup>, 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • 2800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5

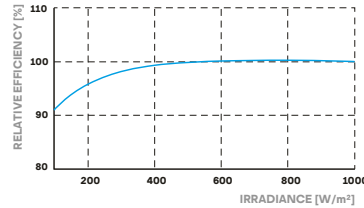
### Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.54% degradation per year. At least 93.1% of nominal power up to 10 years. At least 85% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organization of your respective country.

### PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m<sup>2</sup>)

### TEMPERATURE COEFFICIENTS

|                                      |                |       |                                     |               |                       |
|--------------------------------------|----------------|-------|-------------------------------------|---------------|-----------------------|
| Temperature Coefficient of $I_{SC}$  | $\alpha$ [%/K] | +0.04 | Temperature Coefficient of $V_{OC}$ | $\beta$ [%/K] | -0.27                 |
| Temperature Coefficient of $P_{MPP}$ | $\gamma$ [%/K] | -0.36 | Normal Module Operating Temperature | NMOT [°F]     | 109 ± 5.4 (43 ± 3 °C) |

## PROPERTIES FOR SYSTEM DESIGN

|  |                          |                              |   |   |
|--|--------------------------|------------------------------|---|---|
| Maximum System Voltage $V_{SYS}$           | [V]                      | 1000 (IEC)/1000 (UL)         | Safety Class                                    | II  |
| Maximum Series Fuse Rating                 | [A DC]                   | 20                           | Fire Rating based on ANSI / UL 1703             | C (IEC)/TYPE 2 (UL)                           |
| Max. Design Load, Push / Pull <sup>3</sup> | [lbs / ft <sup>2</sup> ] | 75 (3600 Pa) / 55 (2667 Pa)  | Permitted Module Temperature on Continuous Duty | -40 °F up to +185 °F<br>(-40 °C up to +85 °C) |
| Max. Test Load, Push / Pull <sup>3</sup>   | [lbs / ft <sup>2</sup> ] | 113 (5400 Pa) / 84 (4000 Pa) |   |   |

<sup>3</sup> See Installation Manual

## QUALIFICATIONS AND CERTIFICATES

UL 1703, VDE Quality Tested, CE-compliant, IEC 61215:2016, IEC 61730:2016, Application Class II, U.S. Patent No. 9,893,215 (solar cells)



## PACKAGING INFORMATION

|  |   |
|--|---|
| Number of Modules per Pallet           | 32  |
| Number of Pallets per 53' Trailer      | 28  |
| Number of Pallets per 40' HC-Container | 24  |
| Pallet Dimensions (L × W × H)          | 71.5 × 45.3 × 48.0 in (1815 × 1150 × 1220 mm) |
| Pallet Weight                          | 1505 lbs (683 kg)                             |

**Note:** Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

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